

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
**PETROGLYPH OPERATING CO., INC.**

3a. Address **P.O. BOX 607,  
ROOSEVELT, UT 84066**

3b. Phone No. (Include area code)  
**(435)722-2531**

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface **1754' FNL, 576' FEL** Lot 2 **SWNE**  
**546029X 40.4996**  
At proposed prod. Zone **4430049Y -110.22626**

14. Distance in miles and direction from nearest town or post office\*  
**25.2 MILES SOUTHWEST OF MYTON, UTAH**

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. **576'**  
(Also to nearest drig. Unit line, if any)

16. No. of Acres in lease  
**409.40**

18. Distance from proposed location\*  
to nearest well, drilling, completed, **See Topo**  
applied for, on this lease, ft. **Man "C"**

19. Proposed Depth  
**6196'**

17. Spacing Unit dedicated to this well

20. BLM/BIA Bond No. on file  
**BO 4556**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6426.2 FEET GRADED GROUND**

22. Approximate date work will start\*  
**UPON APPROVAL**

23. Estimated duration  
**45 DAYS**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Name (Printed/Typed)  
**Ed Trotter**

Date

**September 9, 2009**

Title  
**Agent**

Approved by (Signature)

Name (Printed/Typed)

**BRADLEY G. HILL  
ENVIRONMENTAL MANAGER**

Date

**11-02-09**

Title

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of Approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Continued on page 2)

Federal Approval of this  
Action is Approved

DIV. OF OIL, GAS & MINING

RECEIVED  
OCT 26 2009

T5S, R3W, U.S.B.&M.

N89°15'28"E  
894.83' (Meas. to True)  
N89°15'28"E  
894.10' (Meas. to C.C.)

Mile Marker  
Semi-Set  
Stone- N-S  
Fenceline

N03°00'52"E  
152.13' (Meas.)

N88°52'04"E - 2641.81' (Meas.)

Set Marked  
Stone, Pile  
of Stones

Set Marked  
Stone

C.C.  
Set Marked  
Stone, N-S  
Fenceline

Lot 1

1754'

S01°40'02"E - 2594.38' (Meas.)

UTE TRIBAL #28-07  
Elev. Ungraded Ground = 6433'

576'

Lot 2

Set Marked  
Stone

28

S01°10'48"E - 2638.40' (Meas.)

Lot 3

Lot 4

Section Corner  
Re-Established  
Using Double  
Proportion Method

Mile Marker  
Set Marked  
Stone

N02°17'51"E  
160.08' (Meas.)

Set Stone

S89°15'58"W  
5273.53' (Meas.)

SW Cor. Sec. 29  
Set Stone

S01°04'20"E  
2638.26' (Meas.)

N89°34'11"E - 2638.80' (Meas.)

S89°50'13"E  
562.14' (Meas.)

Set Marked  
Stone, Fence  
Running NE-SW

# LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

E 1/4 Cor. Sec. 32  
Set Stones, Pile of  
Stones

(NAD 83)  
LATITUDE = 40°01'11.78" (40.019939)  
LONGITUDE = 110°13'38.12" (110.227256)  
(NAD 27)  
LATITUDE = 40°01'11.92" (40.019978)  
LONGITUDE = 110°13'35.57" (110.226547)

## PETROGLYPH OPERATING CO., INC.

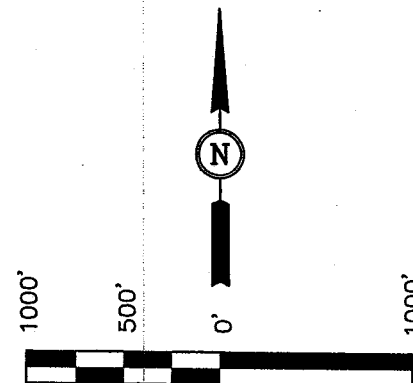
Well location, UTE TRIBAL #28-07, located  
as shown in Lot 2 of Section 28, T5S, R3W,  
U.S.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION  
9, T5S, R4W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE  
QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID  
ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

### BASIS OF BEARINGS

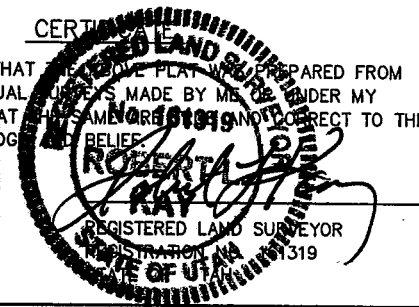
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-12-09	DATE DRAWN: 02-11-09
PARTY S.H. D.G. C.H.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	

**Petroglyph Operating Co., Inc.**  
**P.O. Box 607**  
**Roosevelt, UT 84066**

September 9, 2009

Utah Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL 28-07  
Lot 2, SECTION 28, T5S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO. BIA 14-20-H62-3517  
UTE INDIAN TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420

Sincerely,



Ed Trotter  
Agent  
Petroglyph Operating Co., Inc.

Attachments

**RECEIVED**  
**OCT 26 2009**

# EIGHT POINT PLAN

UTE TRIBAL 28-07  
LOT 2, SEC. 28, T5S, R3W  
DUCHESNE COUNTY, UTAH

## 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2864	3562
"X" Marker	4426	2000
Douglas Creek	4566	1860
"B" Limestone	4939	1487
B/Castle Peak Limestone	5496	930
Total Depth	6196	
Anticipated BHP	2529	

## 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4566	1860
Oil/Gas	B/Castle Peak	5496	930

Other mineral zones N/A

## 3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

## 4. CASING PROGRAM:

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18"	14"	sfc	40'	steel	cond	none
12 1/4"	8 5/8"	sfc	480'	24.0	J-55	STC
7 7/8"	5 1/2"	sfc	6,196'	15.5	J-55	LTC

Casing Strengths:				Collapse	Burst	Tensile
8 5/8"	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2"	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

## **EIGHT POINT PLAN**

**UTE TRIBAL 28-07  
LOT 2, SEC. 28, T5S, R3W  
DUCHESNE COUNTY, UTAH**

### **5. MUD PROGRAM**

#### **INTERVAL**

0' - 480'

480' - TD

#### **MUD TYPE**

Air/Aerated Water

Water & KCL water or KCL substitute

Gel/polyacrylamide polymer w/5-10% LCM, LSND as conditions warrant

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

### **6. CEMENT PROGRAM:**

#### **14" Conductor:**

Cement to surface with construction cement.

#### **8 5/8" Casing: sfc-480'**

**Lead Slurry: 0' - 480':** 137 sks (248 cu ft) Light cement + 0.25 lb/sk

Kwik Seal + 0.125 lb/sk Poly-E-Flake. Slurry wt: 13.5 ppg, Slurry yield: 1.81 ft<sup>3</sup>/sk,

Slurry volume: 12-1/4" hole + 25% excess. (Cement will be circulated to surface).

#### **5 1/2" Casing: sfc-6196'**

**Lead Slurry: sfc-4000':** 230 sx Light Cement (11 ppg $\pm$ , 3.81 ft<sup>3</sup>/sk) plus LCM (hole + 25% excess).

#### **Tail Slurry:**

**4000'-6196':** 311 sx 50/50 Pozmix (14 ppg $\pm$ , 1.25 ft<sup>3</sup>/sk) + 2% Gel + 5% Salt + 0.125 lb/sk

Poly-E-flake (hole + 25% excess). (Cement will be circulated to surface).

### **7. VARIANCE REQUESTS:**

A. Petroglyph Operating Company, Inc. requests a variance to regulations requiring a straight run blooie line.

B. Petroglyph Operating Company, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

### **8. EVALUATION PROGRAM:**

Logs: Platform Express TD to base of surface casing  
(DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated

DST: None Programmed

Completion: To be submitted at a later date.

**EIGHT POINT PLAN**  
**UTE TRIBAL 28-07**  
**LOT 2, SEC. 28, T5S, R3W**  
**DUCHESNE COUNTY, UTAH**

**9. ABNORMAL CONDITIONS:**

None anticipated.

**10. STANDARD REQUIRED EQUIPMENT:**

None Required

**11. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

**CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Petroglyph Operating Co. Inc.  
Well Name & Number: Ute Tribal #28-07  
Lease Number: BIA 14-20-H62-3517  
Location: 1754' FNL & 576' FEL, Lot 2  
Sec. 28, T5S, R3W, U.S.B.&M.,  
Duchesne County, Utah  
Surface Ownership: Ute Indian Tribe

**NOTIFICATION REQUIREMENTS**

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice: - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice well - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## **THIRTEEN POINT SURFACE USE PROGRAM**

### **1. EXISTING ROADS**

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 25.2 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### **2. PLANNED ACCESS ROAD**

- A. The access road will be approximately 0.1 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of-Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed



during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Temporarily abandoned wells - 1\*
  - B. Producing wells - 58\*
- (\*See attached TOPO map "C" for location)

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. **ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities - To be submitted later
- 3. Oil gathering lines - None
- 4. Gas gathering lines - None
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.
- 3. A 41/2" OD steel above ground production pipeline will be laid approximately 1925' from proposed location to the Ute Tribal 28-06 well in the SE/NW of Section 28, T5S, R3W, where it will tie into Petroglyph Operating Co. Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of -Way grant will be required. See attached TOPO Map "D" showing pipeline route.
- 4. Proposed pipeline will be a 4 1/2 " OD steel, welded line laid on the surface.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Southeast side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Beetle Green.

**5. LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE ¼, Sec. 1, T4S, R5W, Duchesne, Utah (State Water Right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIAL**

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

**7. METHODS OF HANDLING WASTE DISPOSAL**

**A. METHODS AND LOCATION**

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

**On BIA administered land:**

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

**A 12 mill liner shall be installed in the reserve pit.**

\_\_\_\_\_ To protect the environment:

If the reserve pit is lined, the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by Part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

\_\_\_\_\_ To protect the environment (without chemical analysis), reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

\_\_\_\_\_ Storage tanks will be used if drill sites are located on tribal irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

**7. ANCILLARY FACILITIES**

- No airstrips or camps are planned for this well.

**9. WELLSITE LAYOUT**

- A. Refer to attached well site plat for related topography cuts and fills and cross Sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile

location as approved on On-site.

- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the West side of the location. The flare pit will be located downwind of the prevailing wind direction on the Northwest corner of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the Northwest side of the location.

Access to the well pad will be from the Northeast.

X Corners #2, #6, & #8 will be rounded off to minimize excavation.

#### **10. FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be

present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

## 11. PLANS FOR RESTORATION OF SURFACE

### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.

The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

### B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

#### ON BIA ADMINISTERED LANDS:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, © ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

## 12. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

## 13. OTHER INFORMATION

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the

operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used.
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

**On BIA administered land:**

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

**14. Additional Surface Stipulations**

None

**LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

**PERMITTING**

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Telephone: (435)789-4120  
Fax: (435)789-1420

**OPERATIONS**

Jason Bywater  
P.O. Box 607  
Roosevelt, UT 84066  
(435)722-2531  
(435)722-9145

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

**Certification**

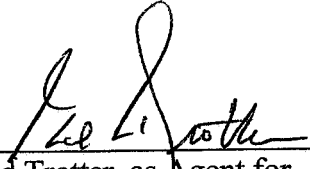
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently

exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 28-07 Well, located in Lot 2 of Section 28, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3517;** and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

Date

9-9-2009

  
Ed Trotter, as Agent for  
Petroglyph Operating Co., Inc.



# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #28-07

LOCATED IN DUCHESNE COUNTY, UTAH

SECTION 28, T5S, R3W, U.S.B.&M.

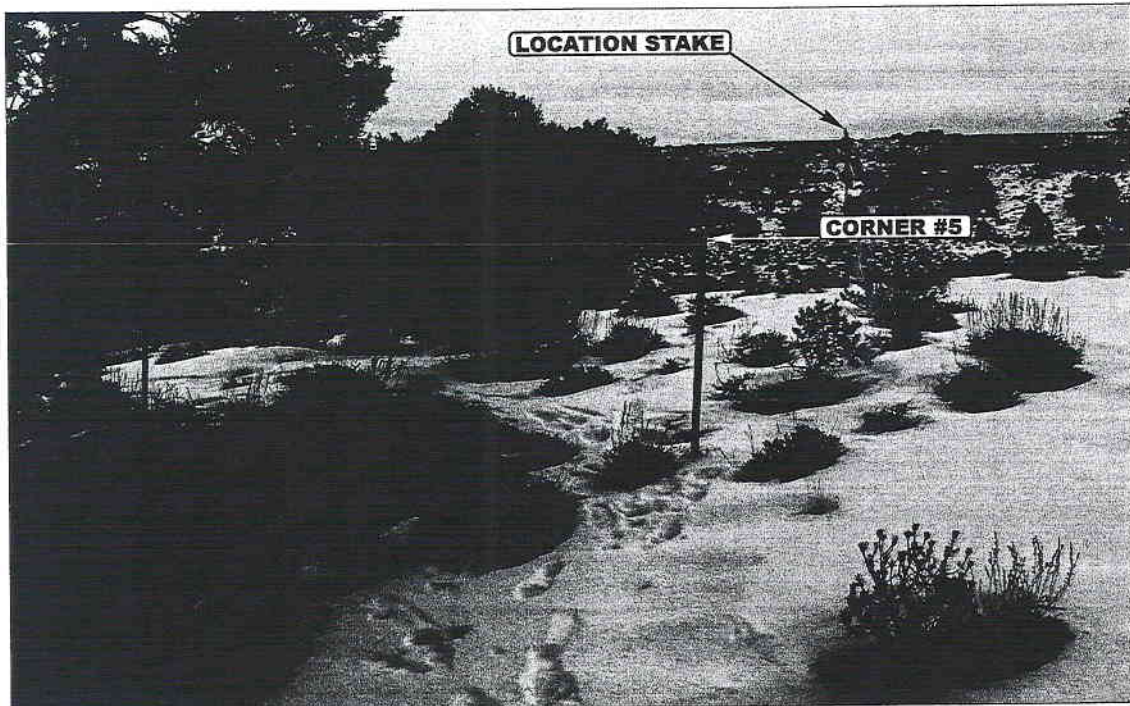


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

LOCATION PHOTOS

02  
MONTH

11  
DAY

09  
YEAR

PHOTO

TAKEN BY: S.H.

DRAWN BY: Z.L.

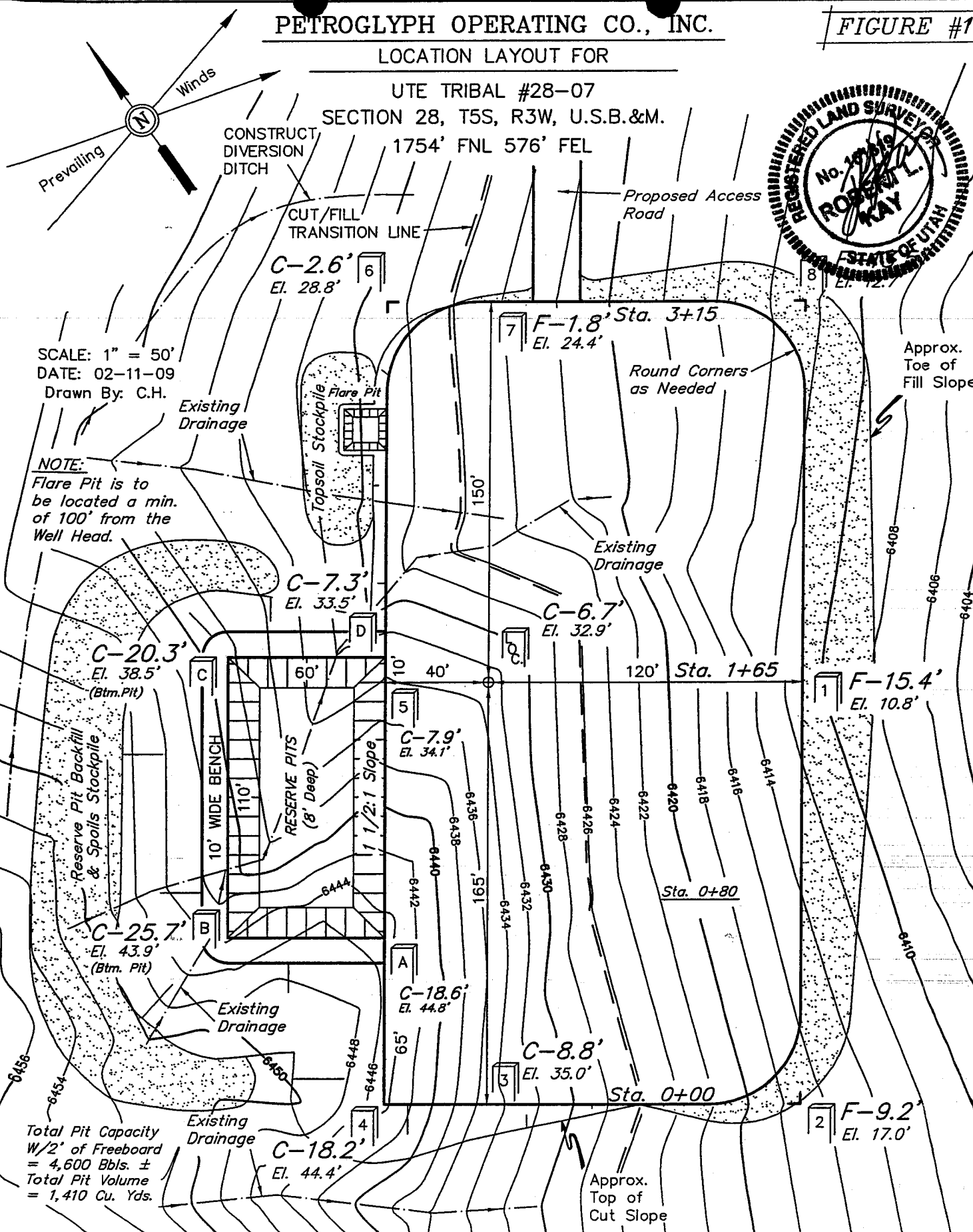
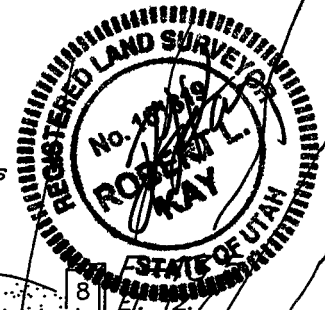
REVISED: 00-00-00

# PETROGLYPH OPERATING CO., INC.

FIGURE #1

## LOCATION LAYOUT FOR

UTE TRIBAL #28-07  
SECTION 28, T5S, R3W, U.S.B.&M.  
1754' FNL 576' FEL



SCALE: 1" = 50'  
DATE: 02-11-09  
Drawn By: C.H.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.

Total Pit Capacity  
W/2' of Freeboard  
= 4,600 Bbls. ±  
Total Pit Volume  
= 1,410 Cu. Yds.

Elev. Ungraded Ground at Location Stake = 6432.9'  
Elev. Graded Ground at Location Stake = 6426.2'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

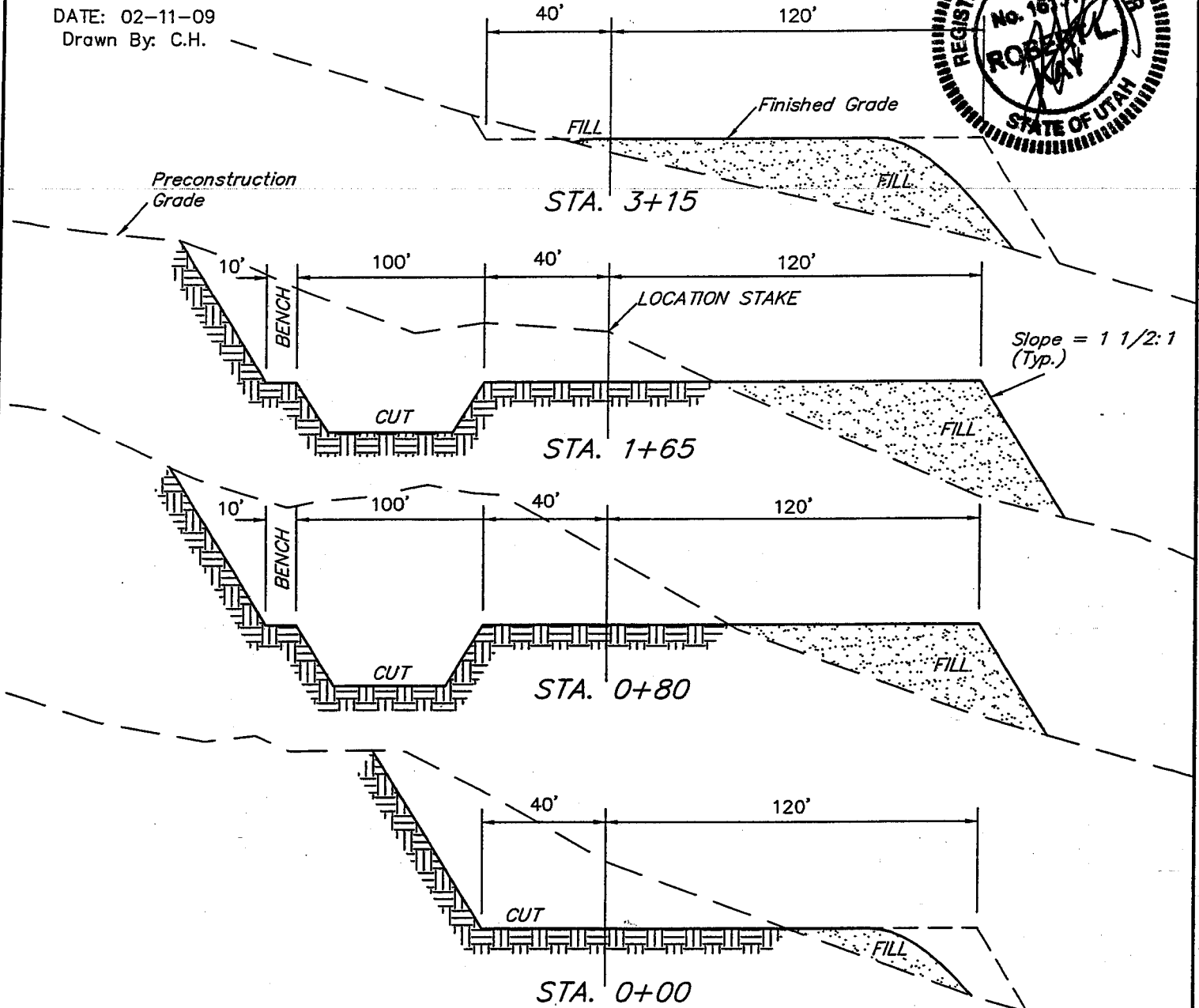
# PETROGLYPH OPERATING CO., INC.

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #28-07  
SECTION 28, T5S, R3W, U.S.B.&M.  
1754' FNL 576' FEL

1" = 20'  
X-Section Scale  
1" = 50'  
DATE: 02-11-09  
Drawn By: C.H.



### APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.049 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.297 ACRES  
TOTAL = ± 3.346 ACRES

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 3,110 Cu. Yds.  
Remaining Location = 12,390 Cu. Yds.  
TOTAL CUT = 15,500 CU.YDS.  
FILL = 11,680 CU.YDS.

EXCESS MATERIAL = 3,820 Cu. Yds.  
Topsoil & Pit Backfill = 3,820 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

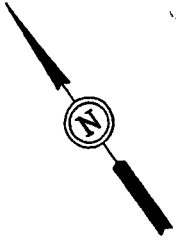
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85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# PETROGLYPH OPERATING CO., INC.

## TYPICAL RIG LAYOUT FOR

UTE TRIBAL #28-07  
SECTION 28, T5S, R3W, U.S.B.&M.  
1754' FNL 576' FEL

FIGURE #3

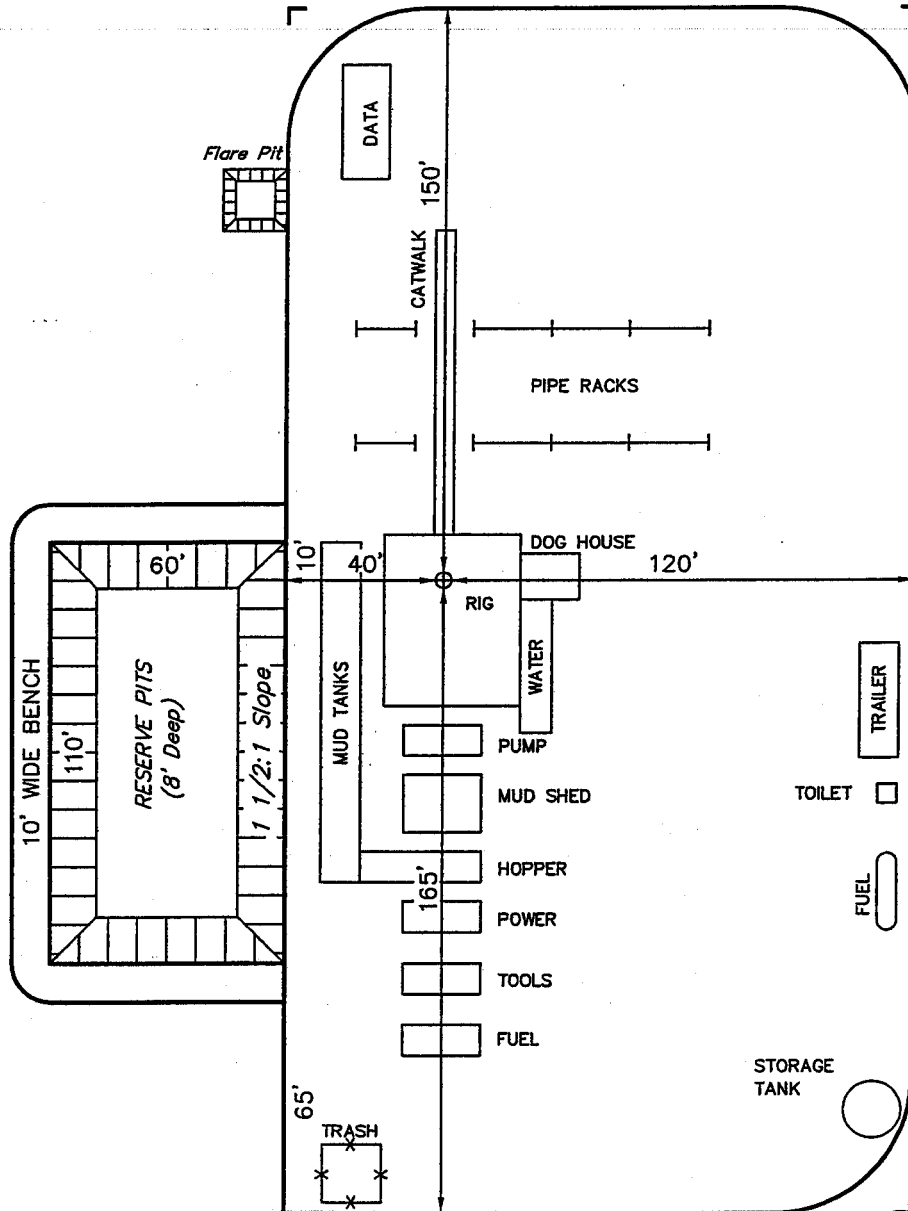


SCALE: 1" = 50'  
DATE: 02-11-09  
Drawn By: C.H.

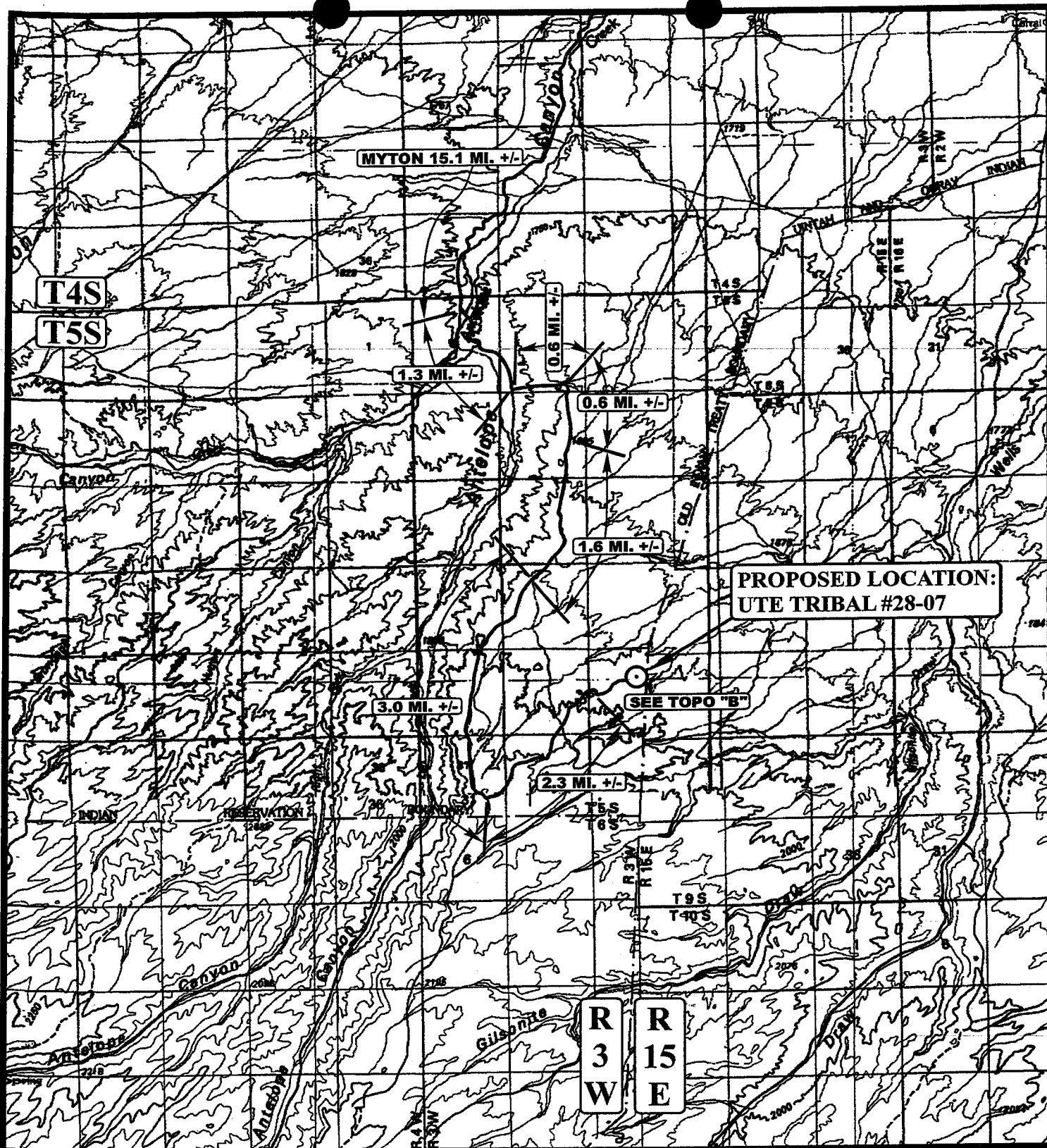


### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.







# **LEGEND:**

○ PROPOSED LOCATION



**PETROGLYPH OPERATING CO., INC.**

UTE TRIBAL #28-07

SECTION 28, T5S, R3W, U.S.B.&M.

1754' FNL 576' FEL



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(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

02 11 09  
MONTH DAY YEAR

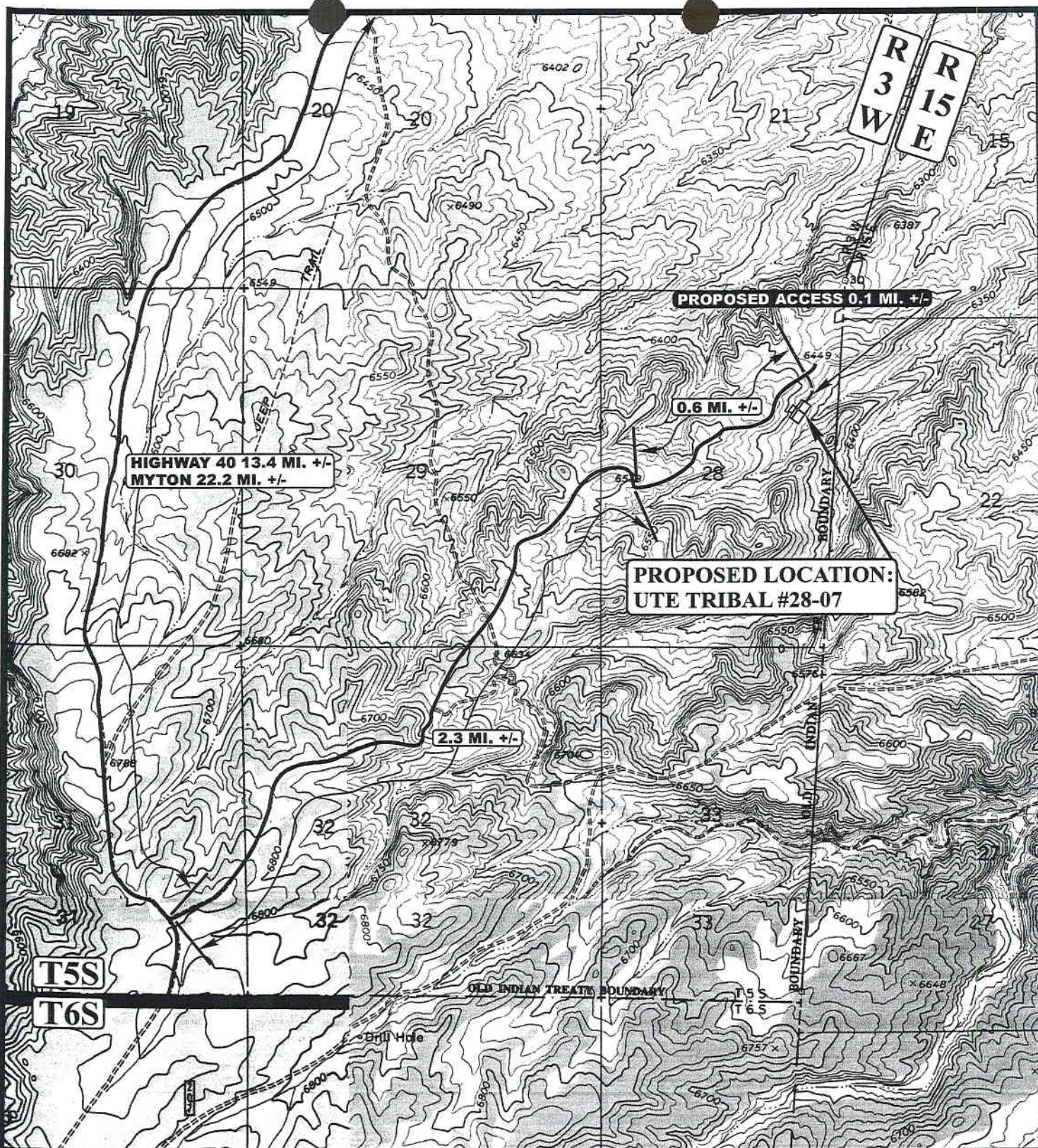
SCALE: 1:100,000

DRAWN BY: Z.L.

REVISED: 00-00-00







# LEGEND:

EXISTING ROAD  
 PROPOSED ACCESS ROAD



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# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #28-07  
 SECTION 28, T5S, R3W, U.S.B.&M.  
 1754' FNL 576' FEL

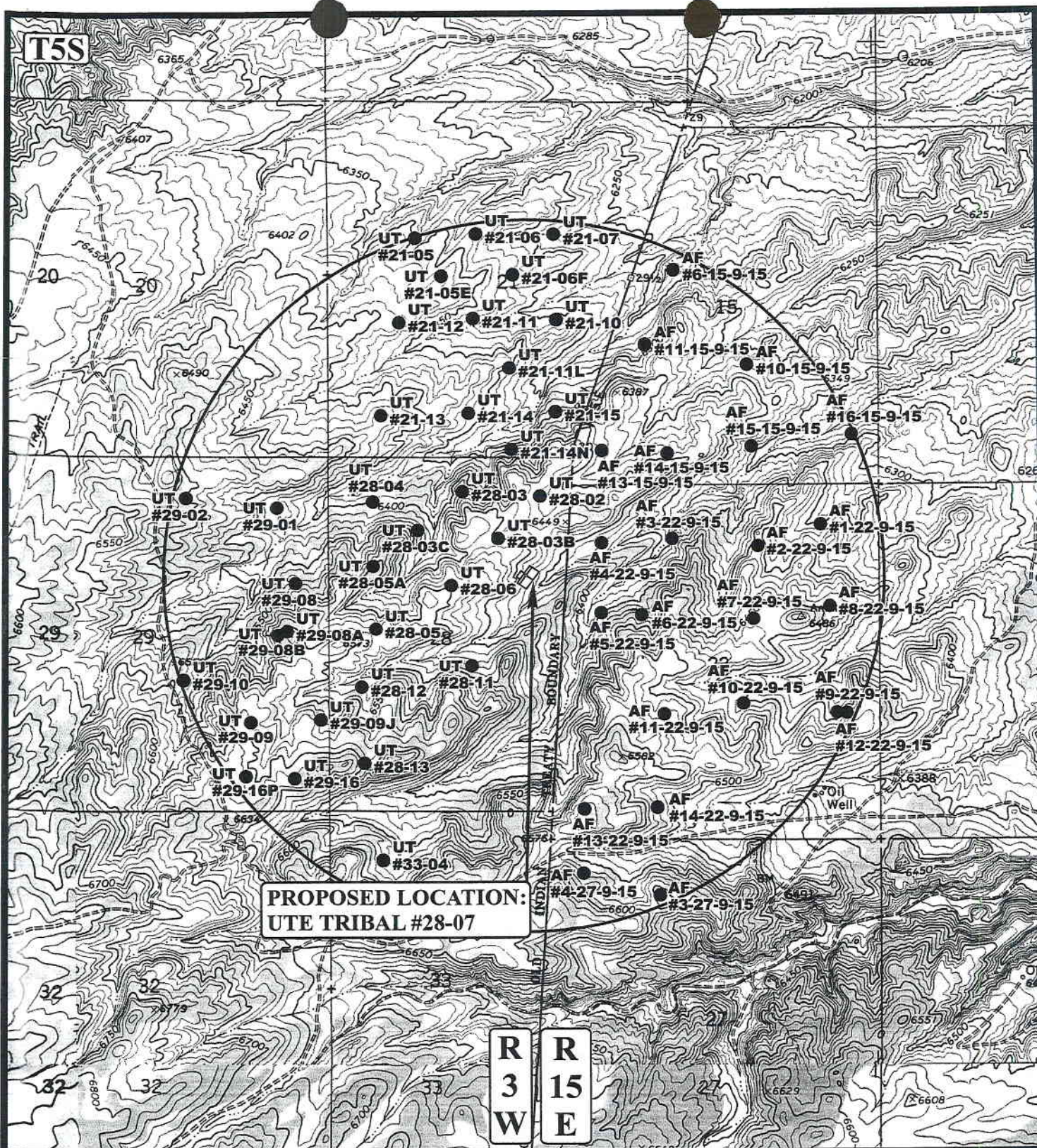
TOPOGRAPHIC  
 MAP

02 11 09  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00

**B**  
 TOPO





# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #28-07  
 SECTION 28, T5S, R3W, U.S.B.&M.  
 1754' FNL 576' FEL

TOPOGRAPHIC  
 MAP

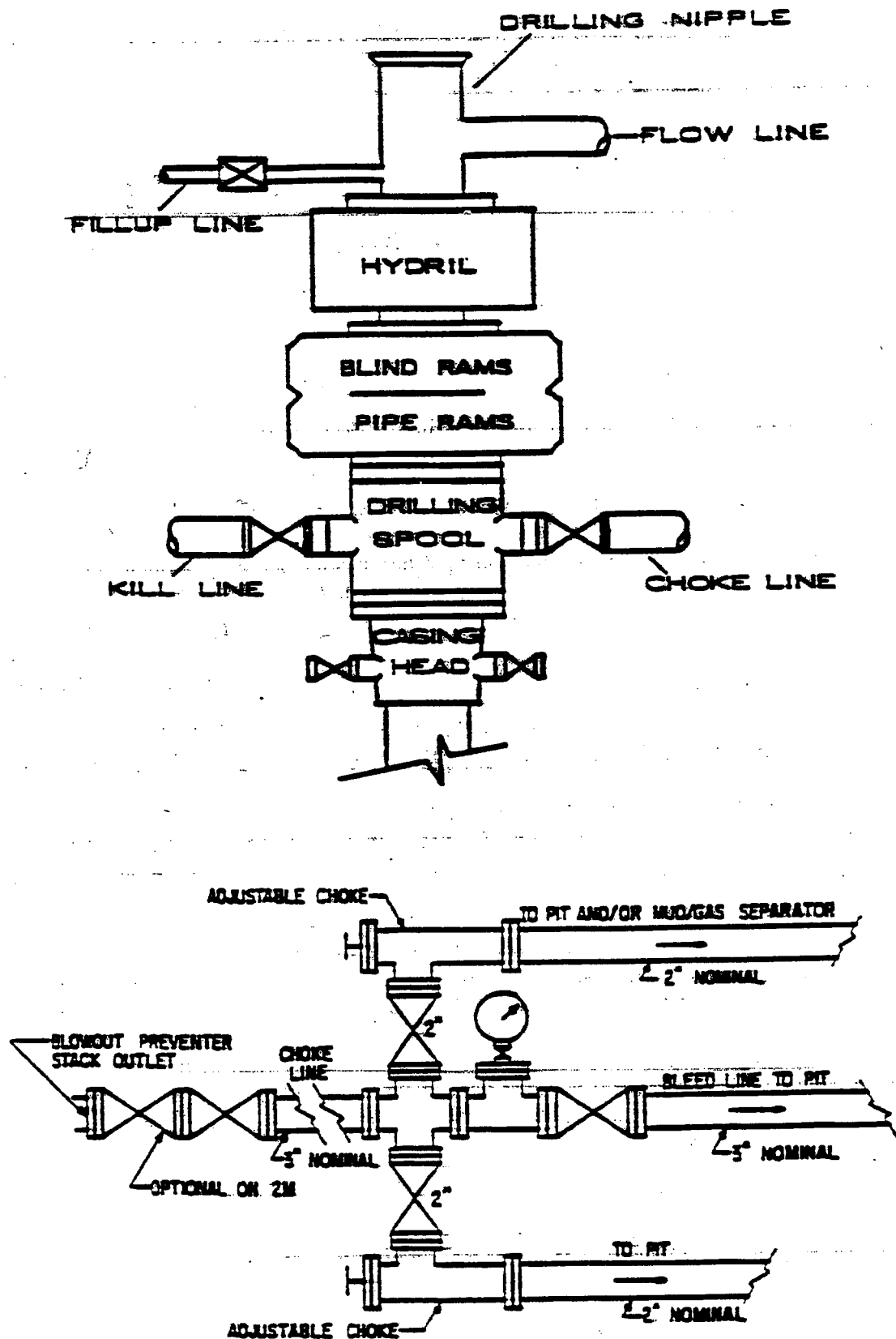
02 11 09  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00





## SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK





**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/26/2009

API NO. ASSIGNED: 43-013-34291

WELL NAME: UTE TRIBAL 28-07

OPERATOR: PETROGLYPH OPERATING CO ( N3800 )

PHONE NUMBER: 435-722-2531

CONTACT: ED TROTTER

PROPOSED LOCATION:

SWNE 28 050S 030W

SURFACE: 1754 FNL 0576 FEL

BOTTOM: 1754 FNL 0576 FEL

COUNTY: DUCHESNE

LATITUDE: 40.01996 LONGITUDE: -110.22626

UTM SURF EASTINGS: 566029 NORTHINGS: 4430049

FIELD NAME: ANTELOPE CREEK ( 60 )

INSPECT LOCATN BY: / /

**Tech Review**

**Initials**

**Date**

Engineering

Geology

Surface

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-3517

PROPOSED FORMATION: CSLPK

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. BO 4556 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10152 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

       R649-2-3.

Unit: \_\_\_\_\_

       R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☒ R649-3-3. Exception

       Drilling Unit

Board Cause No: \_\_\_\_\_

Eff Date: \_\_\_\_\_

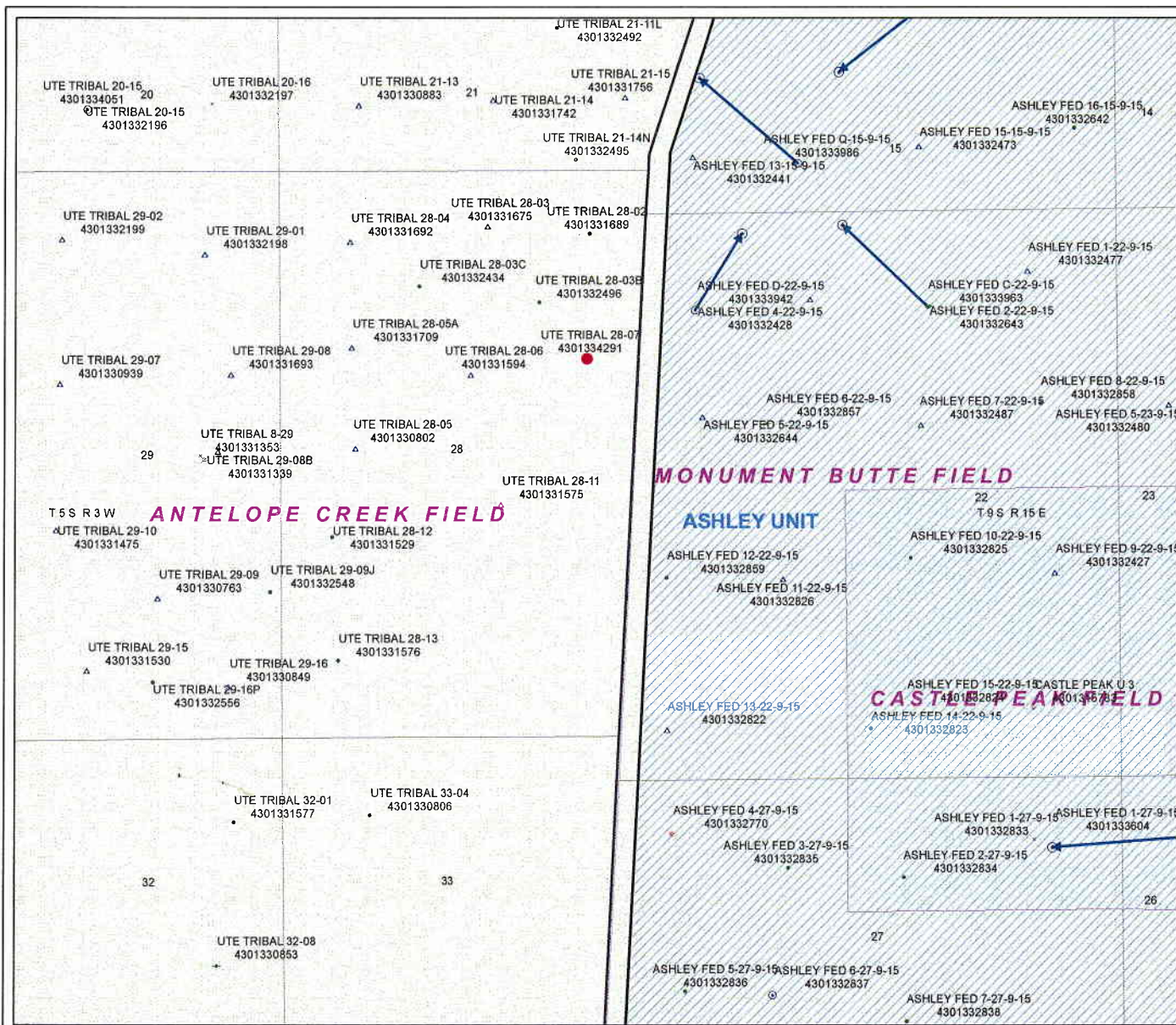
Siting: \_\_\_\_\_

       R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

*1- Seismic Approval*  
*2- Spacing Stip*



**API Number: 4301334291**  
**Well Name: UTE TRIBAL 28-07**  
**Township 05.0 S Range 03.0 W Section 28**  
**Meridian: UBM**  
**Operator: PETROGLYPH OPERATING CO**  
 Map Prepared:  
 Map Produced by Diana Mason

- ✦ GAS INJECTION
  - ◻ GAS STORAGE
  - ⊙ LOCATION ABANDONED
  - ⊕ NEW LOCATION
  - ◆ PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - ➔ SHUT-IN OIL
  - ⊙ TEMP. ABANDONED
  - TEST WELL
  - △ WATER INJECTION
  - ⬇ WATER SUPPLY
  - ⬇ WATER DISPOSAL
- Units  
 Spacing Index  
 ACTIVE FIELD  
 COMBINED FIELD



200 Feet



1:11,614

State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

October 29, 2009

Re: Application for Exception Well Location  
Proposed

Ute Tribal 05-06 in Lot 11, Sec. 5  
Ute Tribal 28-07 in Lot 2, Sec. 28  
Ute Tribal 29-11G in NESW, Sec. 29  
All in T5S, R3W, U.S.B.&M.  
Duchesne County, Utah

Due to topography, Petroglyph Operating Company Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the following wells:

Ute Tribal 05-06, a 6317' Green River test at a location 2261' FNL & 2050' FWL, Lot 11, Sec. 5, T5S, R3W, U.S.B.&M., Duchesne County, Utah

Ute Tribal 28-07, a 6196' Green River test at a location 1754' FNL & 576' FEL, Lot 2, Sec. 28, T5S, R3W, U.S.B.&M., Duchesne County, Utah.

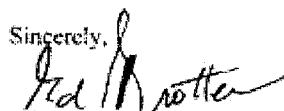
Ute Tribal 29-11G, a 5967' Green River test at a location 2595' FSL & 2623' FWL, NE/SW, Sec. 29, T5S, R3W, U.S.B.&M., Duchesne County, Utah.

Petroglyph Operating Company Inc. holds 100% of the operating rights within a 460' radius of the requested well site.

Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant the applications for the exceptional well locations at its earliest opportunity so that drilling operations can resume.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 435-789-4120

Sincerely,



Ed Trotter, Agent  
Petroglyph Operating Company Inc.

Ed Trotter



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

November 2, 2009

Petroglyph Operating Co., Inc.  
P O Box 607  
Roosevelt, UT 84066

Re: Ute Tribal 28-07 Well, 1754' FNL, 576' FEL, SW NE, Sec. 28, T. 5 South, R. 3 West,  
Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34291.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office

**Operator:** Petroglyph Operating Co., Inc.  
**Well Name & Number** Ute Tribal 28-07  
**API Number:** 43-013-34291  
**Lease:** 14-20-H62-3517

**Location:** SW NE                      **Sec.** 28                      **T.** 5 South                      **R.** 3 West

### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
**PETROGLYPH OPERATING CO., INC.**

3a. Address **P.O. BOX 607,  
ROOSEVELT, UT 84066**

3b. Phone No. (Include area code)  
**(435)722-2531**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **1754' FNL, 576' FEL** **Lot 2**

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*  
**25.2 MILES SOUTHWEST OF MYTON, UTAH**

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. **576'**  
(Also to nearest drig. Unit line, if any)

16. No. of Acres in lease  
**409.40**

17. Spacing Unit dedicated to this well

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. **See Topo  
Man "C"**

19. Proposed Depth  
**6196'**

20. BLM/BIA Bond No. on file  
**BO 4556**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6426.2 FEET GRADED GROUND**

22. Approximate date work will start\*  
**UPON APPROVAL**

23. Estimated duration  
**45 DAYS**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Name (Printed/Typed)  
**Ed Trotter**

**FEB 11 2010**

Date  
**September 9, 2009**

Title  
**Agent**

**DIV. OF OIL, GAS & MINING**

Approved by (Signature)

Name (Printed/Typed)

Date

Title **ACTING Assistant Field Manager  
lands & Mineral Resources**

Office

**VERNAL FIELD OFFICE**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of Approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Continued)

**NOTICE OF APPROVAL**

**NOS 4-15-09**

**AFMSS#093501034**





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Petroglyph Operating Co., Inc.  
Well No: Ute Tribal 28-07  
API No: 43-013-34291

Location: Lot #2, Sec. 28, T5S, R3W  
Lease No: 14-20-H62-3517  
Agreement:

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- A 30 foot corridor access road right-of-way shall be approved.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.



- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

Additional Conditions of Approval

- Paint all facilities and equipment desert tan.
- Round corners per tech approval.
- Construct diversion ditch.
- Tie flow line in from this well to the 28-06E.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.
- Operator must notify BLM Vernal office of any active Gilsonite operation within 2 miles of the location 48 hours prior to any blasting on this well location

**Variances Granted**

**Air Drilling**

- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 75' from the well bore and not in a straight line.
- Automatic igniter. Variance granted for igniter.
- A requirement of a water mister when air drilling only.
- The BOP stack must be 2000 psi or higher rated to meet maximum potential surface pressure.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: PETROGLYPH OPERATING COMPANY

Well Name: UTE TRIBAL 28-07

Api No: 43-013-34291 Lease Type: INDIAN

Section 28 Township 05S Range 03W County DUCHESNE

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # 3

### **SPUDDED:**

Date 06/08/2010

Time 12:00 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by GLEND A DAVIS

Telephone # (435) 722-5303

Date 06/09/2010 Signed CHD

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
Petroglyph Operating Company

3. ADDRESS OF OPERATOR:  
PO Box 607 CITY Roosevelt STATE UT ZIP 84066

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 1754' FNL, 576' FEL

PHONE NUMBER:  
(435) 722-2531

5. LEASE DESIGNATION AND SERIAL NUMBER:  
14-20-H62-3517

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME:  
14-20-H62-4650

8. WELL NAME and NUMBER:  
Ute Tribal 28-07

9. API NUMBER:  
4301334291

10. FIELD AND POOL, OR WILDCAT:

COUNTY: Duchesne

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Spud
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

We spud this well on 6/8/2010

NAME (PLEASE PRINT) Glenda Davis

TITLE Office Manager

SIGNATURE

DATE 6/24/2010

(This space for State use only)

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JUN 28 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: PETROGLYPH OPERATING COMPANY Operator Account Number: N 3800  
Address: PO BOX 607  
city ROOSEVELT  
state UT zip 84066 Phone Number: (435) 722-2531

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301334289	UTE TRIBAL 03-05		SWNW	3	5S	3W	DUCHENSE
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17709	6/24/10			7/27/10	
<b>Comments:</b> THIS WELL WILL BE ON IT'S OWN TANK BATTERY <u>CSLPK = GRRV</u>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301334291	UTE TRIBAL 28-07		SWNE	28	5S	3W	DUCHESNE
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17710	6/8/10			7/27/10	
<b>Comments:</b> THIS WELL WILL BE ON IT'S OWN TANK BATTERY <u>CSLPK = GRRV</u>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

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**JUL 13 2010**

GLEND A DAVIS

Name (Please Print)

Signature

OFFICE MANAGER

Title

7/13/2010

Date



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1 TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2 NAME OF OPERATOR  
PETROGLYPH OPERATING COMPANY

3 ADDRESS OF OPERATOR  
PO BOX 607 CITY ROOSEVELT STATE UT ZIP 84066

PHONE NUMBER  
(435) 722-2531

4 LOCATION OF WELL  
FOOTAGES AT SURFACE 1754' FNL, 576' FEL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN SWNE 28 T5S R3W

5 LEASE DESIGNATION AND SERIAL NUMBER  
14-20-H62-3517

6 IF INDIAN, ALLOTTEE OR TRIBE NAME  
UTE INDIAN TRIBE

7 UNIT or CA AGREEMENT NAME  
14-20-H62-4650

8 WELL NAME and NUMBER  
UTE TRIBAL 28-07

9 API NUMBER  
4301334291

10 FIELD AND POOL, OR WILDCAT  
ANTELOPE CREEK FIELD

COUNTY DUCHESNE

STATE UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, e.c.

DATE OF FIRST PRODUCTION FOR THIS WELL WAS ON 7/21/10

NAME (PLEASE PRINT) GLENDA DAVIS TITLE OFFICE MANAGER  
SIGNATURE *Glenda Davis* DATE 7/27/2010

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8

(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
1420H623517

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER ☐

2. NAME OF OPERATOR:  
PETROGLYPH

3. ADDRESS OF OPERATOR:  
BOX 607 CITY ROOSEVELT STATE UT ZIP 84066

PHONE NUMBER:  
(435) 722-2531

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 1754' FNL 576' FEL SEC 28 T5S R3W

AT TOP PRODUCING INTERVAL REPORTED BELOW: SAME

AT TOTAL DEPTH: SAME 1771 fnl 594 fel

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
UTE TRIBE

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
UTE TRIBAL 28-07

9. API NUMBER:  
4301334291

10. FIELD AND POOL, OR WILDCAT  
ANTELOPE CREEK

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:  
SWNE 28 5S 3W

12. COUNTY  
DUCHESSNE

13. STATE  
UTAH

14. DATE SPUDDED: 6/24/2010 15. DATE T.D. REACHED: 6/27/2010 16. DATE COMPLETED: 7/20/2010 ABANDONED ☐ READY TO PRODUCE ☒

18. TOTAL DEPTH: MD 6,195 TVD 6,195 19. PLUG BACK T.D.: MD 6,133 TVD 6,133 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
ACTR, SPEC DNL DUAL SPACE, CBL

23. WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)  
WAS DST RUN? NO ☒ YES ☐ (Submit report)  
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20	14 J55	42	0	42		REDING			CONDUCT
12.250	8.625 J55	24	0	512		G 220	46		SURF
7.875	5.5 J55	15.5	0	6,210		G 900	269	800 CBL	PROD

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,937							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) GREEN RIVER	4,522	5,883			4,522 4,530	.42	32	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					4,626 4,640	.42	56	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					4,692 4,708	.42	44	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					4,778 4,796	.42	72	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5724-5883	30,000# FRAC 1#-5# RAMP 20/40 W/327 BBLS. 15# DELTA 140
5467-5510	32,100# FRAC 1#-5# RAMP 20/40 W/339 BBLS 15# DELTA 140 W/250 GALS 15% HCL
5041-5088	35,000# FRAC 1#-5# RAMP 20/40 & 8,800# OF 6# W/368 BBLS 15# DELTA 140 W/250 GAL% HCL

29. ENCLOSED ATTACHMENTS:

☒ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

POW

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AUG 31 2010

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 7/20/2010		TEST DATE: 7/21/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 162	GAS – MCF: 16	WATER – BBL: 32	PROD. METHOD: ROD PUMP
CHOKE SIZE: 40	TBG. PRESS. 160	CSG. PRESS. 303	API GRAVITY 33.00	BTU – GAS 1	GAS/OIL RATIO 99	24 HR PRODUCTION RATES: →	OIL – BBL: 162	GAS – MCF: 16	WATER – BBL: 32	INTERVAL STATUS: OPEN

## INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

## USED FOR FUEL

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				MAHOGANY MKR.	2,888
				GARDEN GULCH	3,585
				B MKR.	3,977
				X MKR.	4,450
				Y MKR.	4,486
				DOUGLAS CREEK MKR.	4,594
				B LIME	4,972
				CASTLE PEAK MKR	5,525
				BASAL CARBONATE	5,955

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) BOYD COOKTITLE RIG REPSIGNATURE Boyd CookDATE 8-25-10

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



UTE TRIBAL 28-07 COMPLETION

## **CONTINUATION OF OF PERF. INTERVALS AND FRACS. FORM 8 SEC. 27**

### ***PERFS. CONT:***

5041'-5047'=.42 DIA 24 HOLES OPEN  
5072'-5078'=.42 DIA 24 HOLES OPEN  
5467'-5479'=.42 DIA 48 HOLES OPEN  
5508'-5510'=.42 DIA 8 HOLES OPEN  
5724'-5729'=.42 DIA 20 HOLES OPEN  
5735'-5737'=.42 DIA 8 HOLES OPEN  
5854'-5856'=.42 DIA 8 HOLES OPEN  
5878'-5883'=.42 DIA 20 HOLES OPEN

***ALL SHOTS 90 DEGREE PHASING 4SPF***

## **FORM 8 SEC. 28**

FRACS. CONT:

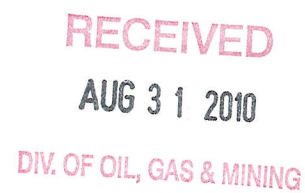
### ***DEPTH INTERVAL:***

4778'-4796'=29,000# FRAC 1#-5# RAMP 20/40 W/321 BBLS. 15# DELTA 140  
W/250 GALS 15% HCL

4692'-4703'=29,400# FRAC 1#-5# RAMP 20/40 W/327 BBLS. 15# DELTA 140 W/250  
GALS 15% HCL

4626'-4640'=29,900# FRAC 1#-5# RAMP 20/40 W/328 BBLS 15# DELTA 140 W/250  
GALS 15% HCL

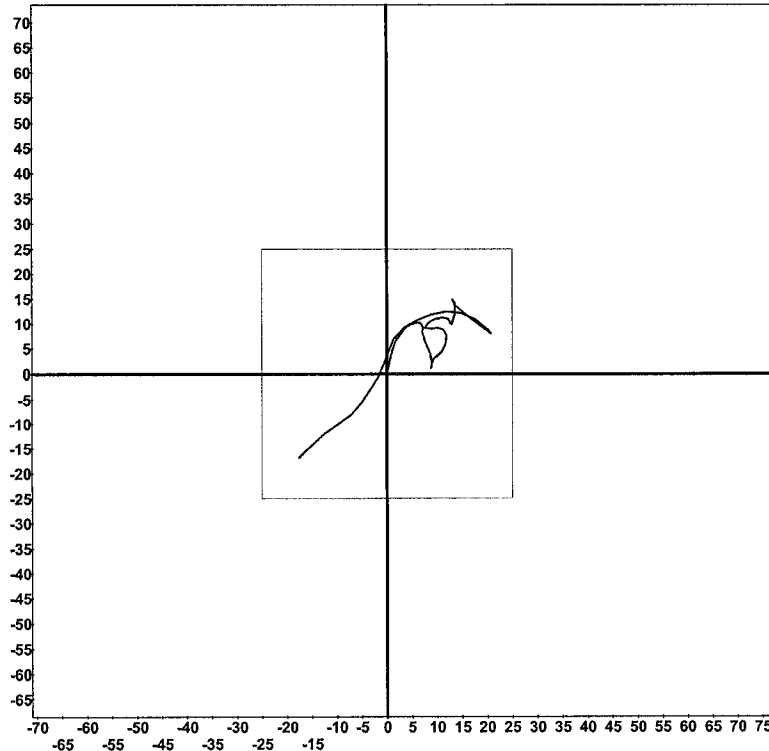
4522'-4530'=15,980# FRAC. 1#-5# RAMP 20/40 W/160 BBLS 15# DELTA 140  
W/250 GALS. 15% HCL



Job Number: 42DEF1006628  
 Company: PETROGLYPH  
 Lease/Well: UTE TRIBAL 28-07  
 Location: DUCHESNE  
 Rig Name: AZTEC 184  
 State/Country: UT/ USA

File name: D:\WINSERVE\UTE28-07.SVY

200  
 425  
 650  
 875  
 1100  
 1325  
 1550  
 1775  
 2000  
 2225  
 2450  
 2675  
 2900  
 3125  
 3350  
 3575  
 3800  
 4025  
 4250  
 4475  
 4700  
 4925  
 5150  
 5375  
 5600  
 5825  
 6050  
 6275  
 6500  
 6725  
 6950  
 7175  
 7400  
 7625  
 7850  
 8075  
 8300



-137025-475-25 425 875 1325 1775 2225 2675 3125 3575 4025 4475 4925 5375 5825 6275 6725 7175 7625 8075 8525 8975 9425 9875 10325 10775 11225 11675 12125 12575 13025 13475 13925  
 -115000-250200 650 1100 1550 2000 2450 2900 3350 3800 4250 4700 5150 5600 6050 6500 6950 7400 7850 8300 8750 9200 9650 10100 10550 11000 11450 11900 12350 12800 13250 13700 14150

° -- UTE TRIBAL 28-07 AS DRILLED    ^ -- UTE TRIBAL 28-07 PLAN    ° -- 1

Job Number: 42DEF1006628  
Company: PETROGLYPH  
Lease/Well: UTE TRIBAL 28-07  
Location: DUCHESNE  
Rig Name: AZTEC 184  
RKB: 6440  
G.L. or M.S.L.: []

State/Country: UT/ USA  
Declination: 11.504  
Grid: []  
File name: D:\WINSERVE\UTE28-07.SVY  
Date/Time: 28-Jun-10 / 08:45  
Curve Name: UTE TRIBAL 28-07 AS DRILLED

### Scientific Drilling

WINSERVE SURVEY CALCULATIONS  
*Minimum Curvature Method*  
*Vertical Section Plane .00*  
*Vertical Section Referenced to Wellhead*  
*Rectangular Coordinates Referenced to Wellhead*

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	-90.00	.00	.00	.00	.00	.00	.00	.00	.00
547.00	-89.12	12.73	546.98	4.10	.93	4.10	4.20	12.73	.16
639.00	-89.47	23.81	638.97	5.18	1.25	5.18	5.33	13.61	.41
731.00	-89.47	16.69	730.97	5.97	1.55	5.97	6.17	14.52	.07
822.00	-89.47	31.37	821.96	6.74	1.89	6.74	6.99	15.65	.15
914.00	-89.65	52.90	913.96	7.27	2.33	7.27	7.63	17.79	.26
1005.00	-89.47	21.88	1004.96	7.83	2.71	7.83	8.28	19.11	.32
1097.00	-89.21	41.21	1096.95	8.70	3.29	8.70	9.30	20.70	.37
1191.00	-89.38	48.15	1190.95	9.52	4.09	9.52	10.37	23.26	.20
1285.00	-89.38	74.43	1284.94	10.00	4.96	10.00	11.16	26.39	.30
1379.00	-89.38	83.84	1378.93	10.19	5.96	10.19	11.81	30.31	.11
1472.00	-89.74	118.55	1471.93	10.15	6.64	10.15	12.13	33.22	.46
1568.00	-89.65	164.26	1567.93	9.76	6.91	9.76	11.96	35.32	.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1664.00	-89.56	148.00	1663.93	9.16	7.19	9.16	11.65	38.11	.15
1758.00	-89.30	216.03	1757.92	8.39	7.04	8.39	10.96	40.00	.72
1853.00	-88.33	146.94	1852.91	6.76	7.46	6.76	10.07	47.79	1.65
1946.00	-88.33	165.84	1945.87	4.31	8.53	4.31	9.56	63.16	.59
2042.00	-89.47	172.26	2041.85	2.52	8.93	2.52	9.28	74.25	1.19
2134.00	-89.30	187.55	2133.84	1.54	8.91	1.54	9.04	80.20	.26
2229.00	-89.65	338.46	2228.84	1.23	8.73	1.23	8.82	81.96	1.07
2323.00	-89.03	24.60	2322.84	2.22	8.96	2.22	9.23	76.05	.82
2418.00	-89.91	1.13	2417.83	3.03	9.29	3.03	9.77	71.94	.93
2511.00	-88.86	55.80	2510.82	3.62	10.06	3.62	10.69	70.19	1.17
2606.00	-89.38	25.21	2605.81	4.62	11.06	4.62	11.98	67.33	.72
2699.00	-89.91	15.72	2698.81	5.14	11.29	5.14	12.41	65.51	.57
2793.00	-88.94	25.92	2792.80	6.00	11.69	6.00	13.14	62.85	1.03
2887.00	-89.03	348.92	2886.79	7.56	11.92	7.56	14.12	57.61	.69
2982.00	-89.30	311.47	2981.78	8.73	11.33	8.73	14.31	52.37	.63
3077.00	-89.30	277.02	3076.77	9.19	10.32	9.19	13.82	48.32	.44
3171.00	-88.59	255.93	3170.76	8.98	8.63	8.98	12.45	43.86	.85
3267.00	-89.38	13.00	3266.75	9.20	7.60	9.20	11.93	39.57	1.85
3361.00	-89.30	50.09	3360.74	10.06	8.15	10.06	12.95	39.02	.45
3457.00	-89.82	74.96	3456.74	10.48	8.75	10.48	13.65	39.87	.56
3552.00	-88.94	60.46	3551.73	10.95	9.66	10.95	14.60	41.42	.93
3647.00	-89.12	102.65	3646.72	11.22	11.13	11.22	15.81	44.78	.76
3741.00	-89.47	103.88	3740.71	10.96	12.26	10.96	16.45	48.21	.37
3836.00	-89.21	188.96	3835.71	10.21	12.59	10.21	16.20	50.96	.96
3929.00	-89.30	48.86	3928.71	9.95	12.91	9.95	16.30	52.39	1.51
4024.00	-88.15	7.20	4023.68	11.85	13.54	11.85	18.00	48.81	1.48
4120.00	-89.03	346.72	4119.65	14.18	13.55	14.18	19.61	43.70	1.04
4213.00	-89.56	251.01	4212.65	14.83	13.03	14.83	19.74	41.31	1.19
4308.00	-88.51	138.95	4307.64	13.78	13.50	13.78	19.29	44.41	1.79
4402.00	-87.80	125.23	4401.59	11.82	15.77	11.82	19.71	53.16	.88
4496.00	-87.63	129.19	4495.51	9.55	18.75	9.55	21.05	63.02	.25
4591.00	-89.38	121.63	4590.48	8.04	20.72	8.04	22.22	68.80	1.85
4685.00	-87.98	315.69	4684.46	8.96	19.99	8.96	21.91	65.87	2.79
4780.00	-88.15	300.93	4779.41	10.94	17.51	10.94	20.64	57.99	.55



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
4874.00	-88.15	285.81	4873.36	12.14	14.74	12.14	19.10	50.54	.52
4967.00	-88.15	265.68	4966.31	12.43	11.80	12.43	17.14	43.52	.70
5062.00	-88.15	251.27	5061.26	11.82	8.82	11.82	14.75	36.73	.49
5155.00	-88.33	245.21	5154.22	10.77	6.17	10.77	12.41	29.80	.28
5249.00	-88.07	238.79	5248.17	9.38	3.57	9.38	10.04	20.85	.35
5344.00	-87.54	207.50	5343.11	6.74	1.26	6.74	6.86	10.61	1.36
5438.00	-87.19	196.16	5437.01	2.74	-.31	2.74	2.76	353.54	.67
5533.00	-88.42	215.41	5531.94	-.57	-1.72	-.57	1.81	251.76	1.49
5629.00	-88.15	214.36	5627.89	-2.92	-3.36	-2.92	4.45	228.96	.28
5722.00	-87.63	212.42	5720.83	-5.79	-5.24	-5.79	7.80	222.15	.56
5817.00	-88.51	230.88	5815.78	-8.22	-7.25	-8.22	10.96	221.39	1.12
5913.00	-88.15	236.42	5911.74	-9.87	-9.51	-9.87	13.70	223.93	.41
6008.00	-87.80	232.72	6006.68	-11.82	-12.24	-11.82	17.01	225.99	.39
6134.00	-87.71	223.23	6132.58	-15.12	-15.88	-15.12	21.93	226.41	.30
<b>Projection to bit</b>									
6195.00	-87.71	223.23	6193.53	-16.90	-17.55	-16.90	24.36	226.09	.00

## WELL PROFILE

OPERATOR PETROGIRPHWELL # UT28-07FIELD Antelope CanyonCOUNTY DuchesneSTATE UtahDATE 7-20-10☒ NEW COMPLETION ☐ WORKOVER

Casing

Liner

Tubing

SIZE

8 5/8

5 1/2

2 7/8

WEIGHT

24

15.5

6.5

GRADE

J-55

J-55

J-55

THREAD

5 1/2

2 7/8

8 n1

DEPTH

512

6210

5937

ITEM  
NO.

## EQUIPMENT AND SERVICES

Tub Detail

KRTA

14.00

1 137 3 1/2 2 7/8 6.5 3-55 8 n1

41455.46

44694.0

2 5 1/2" Trow/45 Shear

2.80

4472.20

3 44 3 1/2 2 7/8 6.5 3-55 8 n1

1430.88

5903.08

4 2 7/8 PSA (2-28-25)

1.10

5904.18

5 134 2 7/8 6.5 3-55 8 n1

32.50

5936.68

6 2 7/8 n/c w/EO

.45

5937.13

Stretch 9 1/2" For 10K

Rod Detail

1 1/2 x 22 PR/Liner

3 x 7/8, 2-6 x 7/8

80-7/8 Grade 80 S1UL

139-3/4 Grade 80 S1UL

15-3/4 Grade 80 S1UL 5/8" per foot, 4" F/rod

2 1/2 x 1 1/2 x 12 x 15 x 17 DHAC Spray metal

National 1 1/2 PT 220 3 Cap Top Single Valve

Parts

C2 4522-312 32HIS ✓ ✓ 1

C4 4626-46 56HIS ✓ ✓ 2

C5 4692-4703 44HIS ✓ ✓ 3

C6 4778-96 72HIS ✓ ✓ 4

D3 5641-47, 72-88 88HIS ✓ 5 1/2

E1 5467-79 48HIS ✓ 7

E2 5508-10 8HIS 8

E4.2 5724-29, 35-37 28HIS 9 1/2

E7 5854-56, 78-83 28HIS 11 1/2

## COMMENTS:

PREPARED BY

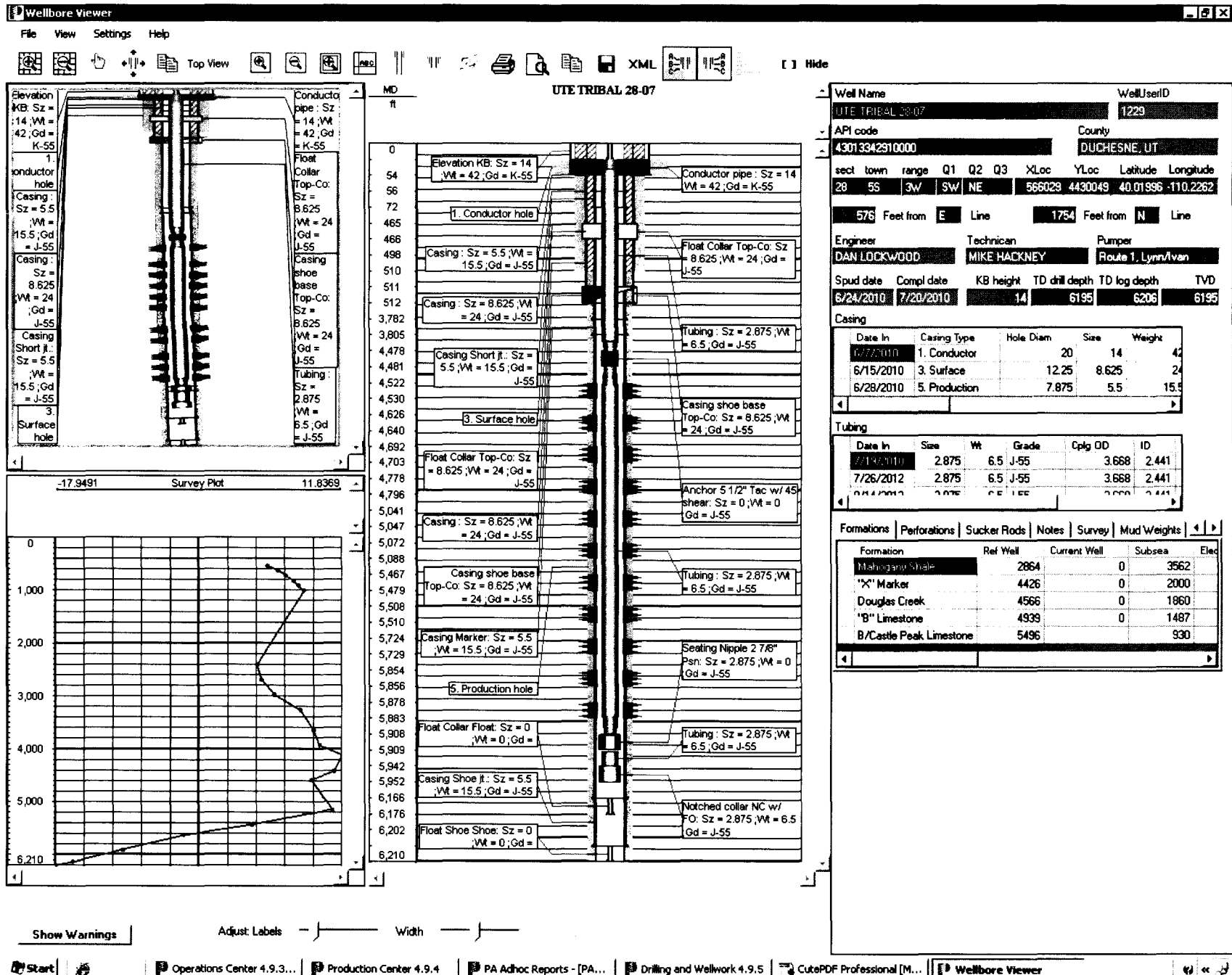
Leon Roush

OFFICE

PHONE

MOUNTAIN  
STATES  
OIL TOOLS

43.013 - 34291



43-013-34291

